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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER

KIM, EDWARD J

ART UNIT

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/511,249	Applicant(s) GENEVOIS, CHRISTOPHE	
	Examiner EDWARD J. KIM	Art Unit 2455	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 July 2010.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5,8 and 10 is/are pending in the application.
- 4a) Of the above claim(s) 6,7 and 9 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5,8 and 10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This office action is in response to the Request for Continued Examination (RCE) filed on 07/13/2010.
2. Claims 1-5, 8 and 10 are pending in this office action. Claims 6, 7 and 9 have been cancelled by the Applicant. Claims 1 and 8 have been amended.

Response to Arguments

3. Applicant's arguments filed 07/13/2010 have been fully considered but they are not persuasive.

Applicant argues that the prior arts of record fail to disclose,

“a single preloaded conditional access component that contains initially all variation of the future functionalities, wherein the preloaded systems are disabled until a purchase action” (pg.7 second paragraph of the RCE filed on 07/13/2010)

In response,

The underlined portion of the above quote of the Applicant's explanation of the invention has a different scope from what is being claimed, as the claim language reads, “a plurality of particular conditional access systems”.

Giachetti further discloses that it is more cost-effective for both the end-user/customer and the manufacturer to implement the CASS (CA system) on detachable modules, such as smart cards, wherein the detachable module includes cryptographic algorithms, secret keys, and entitlement of the customer, rather than implementing the system so that multiple CASS is available on the decoder box with detachable modules including cryptographic algorithms, secret keys, and entitlement of the customer (Giachetti, Abstract, fig.2, fig.3 fig.4 pg.837 left column

Art Unit: 2455

2nd paragraph –pg.838 left column 5th paragraph, Conclusion). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Giachetti to implement multiple CA systems on the decoder box. One would have been motivated to do so since it is disclosed by that the system disclosed by Giachetti is an improvement of such system, and such system is disclosed by Giachetti as being prior art.

The Examiner recommends the Applicant to schedule an interview if further clarification is needed.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1, 2, 4, 5, 8, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Giachetti et al. ("A Common Conditional Access Interface for Digital Video Broadcasting Decoders", *IEEE Transactions on Consumer Electronics*, August 1995), hereinafter referred to as Giachetti, in view of Schooneveld ("Standardization of Conditional Access Systems for Digital Pay Television", *Philips Journal of Research*, 1996).

Giachetti discloses standards that has been designed by Digital Video Broadcasting (DVB) project in Europe, and the technology regarding Conditional Access systems that incorporates a common interface and detachable modules, such as smart cards (Giachetti, Abstract).

Regarding claim 1, Giachetti discloses, a method of operating a conditional access network wherein providers distribute valuable contents over the network and end-users are allowed to access such valuable contents in function of individual access rights, wherein valuable contents are made available to the end-users by way of a plurality of different conditional access systems (Giachetti, Abstract, pg.837 left column 3rd paragraph – right column 4th paragraph, pg.838 left column, fig.2, fig.4), the method comprising the steps of:

configuring a generic conditional access component having a basic functionality common to all conditional access systems and a plurality of particular conditional access systems, said plurality of particular conditional access systems being preloaded but initially disabled (Giachetti, Abstract, pg.837 left column 2nd paragraph – right column 4th paragraph, fig.4, pg.838 left column 1st-6th paragraph, pg.840 right column 2nd-5th paragraph.);

providing the generic conditional access component to an end-user (Giachetti, Abstract, pg.837 left column 2nd paragraph – right column 4th paragraph, fig.4, pg.838 left column 1st-6th paragraph, pg.840 right column 2nd-5th paragraph.);

inserting a smart card comprising a conditional access identification; identifying a particular preloaded conditional access system to be used by the conditional access component (Giachetti, Abstract, pg.837 left column 2nd paragraph – right column 4th paragraph, fig.4, pg.838 left column 1st-6th paragraph, pg.840 right column 2nd-5th paragraph.);

receiving by the conditional access component of a license related to the identified particular preloaded conditional access system; and enabling the particular preloaded conditional access system by the conditional access component after successful verification of the license by the conditional access component (Giachetti, Abstract, pg.837 left column 2nd paragraph – right

Art Unit: 2455

column 4th paragraph, fig.4, pg.838 left column 1st-6th paragraph, pg.840 right column 2nd-5th paragraph. Giachetti discloses that the smart card/detachable security device contains secret keys and stores the entitlement of the customer.).

Although Giachetti discloses the above features, Giachetti fails to disclose the license authorization in more detail, such as receiving by the conditional access component, by reception of an EMM, a license. Schooneveld discloses the standardization of conditional access systems for digital pay television, wherein high level of commonality further studied (Schooneveld, Abstract). Schooneveld further discloses the use of common platform in decoder boxes (aka set-top boxes), and the use of smart cards, wherein he card will only issue the secret key when authorized via various known methods, such as transmission of EMMs, ECMs, etc. (Schooneveld, pg.218-219. Authorization, licensing is disclosed.). It would have been obvious to one of ordinary skill in the art to modify the teachings of Giachetti with those of Schooneveld to utilize licensing authorization methods such as transmission of EMMs, ECMs, etc. One would have been motivated to do so, since as disclosed by Schooneveld, this was a popular/standardized method utilized in digital video broadcasting systems at the time the invention was made.

Giachetti further discloses that it is more cost-effective for both the end-user/customer and the manufacturer to implement the CASS (CA system) on detachable modules, such as smart cards, wherein the detachable module includes cryptographic algorithms, secret keys, and entitlement of the customer, rather than implementing the system so that multiple CASS is available on the decoder box with detachable modules including cryptographic algorithms, secret keys, and entitlement of the customer (Giachetti, Abstract, fig.2, fig.3 fig.4 pg.837 left column

Art Unit: 2455

2nd paragraph –pg.838 left column 5th paragraph, Conclusion). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Giachetti to implement multiple CA systems on the decoder box. One would have been motivated to do so since it is disclosed by that the system disclosed by Giachetti is an improvement of such system, and such system is disclosed by Giachetti as being prior art.

Regarding claim 2, Giachetti and Schooneveld disclosed the limitations, as described in claim 1, and further discloses the use of digital transport stream that contains Entitlement Management Messages (EMMs) (Schooneveld, pg.218-219. Authorization, licensing is disclosed.).

Regarding claim 4, Giachetti and Schooneveld disclosed the limitations, as described in claim 3, and further discloses, a method wherein the valuable contents in the transport stream are scrambled, each conditional access component has a descrambler adapted to process a scrambled transport stream into a clear transport stream, (Giachetti, Abstract, pg.837 left column 2nd paragraph – right column 4th paragraph, fig.4, pg.838 left column 1st-6th paragraph, pg.840 right column 2nd-5th paragraph. Giachetti discloses a descrambler that is used to process a scrambled transport stream.), however, fails to explicitly disclose that the descrambler is enabled or disabled in function of a successful or unsuccessful verification, respectively, of the access rights.

Schooneveld discloses the standardization of conditional access systems for digital pay television, wherein high level of commonality further studied (Schooneveld, Abstract). Schooneveld further discloses that the descrambler is enabled or disabled in function of a successful or unsuccessful verification, respectively, of the access rights (Schooneveld, pg.218-

Art Unit: 2455

219 – Section 2. Schooneveld discloses that the descrambler utilizes a special key from the smart card in order to function, however, this special key is released by the smartcard when it is authorized.). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Giachetti with those of Schooneveld to allow the descrambler to function after authorization. One would have been motivated to do so in order to strengthen the security of the system, allowing the system to carry out descrambling of a scrambled data upon authorization and/or verification of rights to do so.

Regarding claim 5, Giachetti and Schooneveld disclosed the limitations, as described in any of the claims 1 to 4, and further discloses, a method wherein each conditional access system has an associated application for execution by the conditional access component (Giachetti, Abstract, p837 right column 4th paragraph (Commercial Objectives and Requirements). Giachetti discloses that different conditional access system is associated with different programmes.).

Regarding claim 8, Giachetti teaches, a conditional access component for use in a conditional access network wherein a provider distributes valuable contents over the network and end-users are allowed to access such valuable contents in function of individual access rights defined by a user license, wherein said component comprises a first software module embedding a basic functionality common to a plurality of different conditional access systems used in the network, said module allowing a particular identified conditional access system to be enabled subject to successful verification of a license therefor (Giachetti, Abstract, pg.837 left column 2nd paragraph – right column 4th paragraph, fig.4, pg.838 left column 1st-6th paragraph, pg.840 right column 2nd-5th paragraph.), a plurality of specific application software, each constituting a

Art Unit: 2455

particular conditional access system in conjunction with the basic functionality a non-volatile memory for storing said plurality of preloaded specific application software (Giachetti, Abstract, p.837 right column 4th paragraph (Commercial Objectives and Requirements). Giachetti discloses that different conditional access system is associated with different programmes.), said particular conditional access systems being initially disabled in the non-volatile memory (Giachetti, Abstract, pg.837 left column 2nd paragraph – right column 4th paragraph, fig.4, pg.838 left column 1st-6th paragraph, pg.840 right column 2nd-5th paragraph.);,

a smart card inserted into said component, means on said smart card for identifying a particular conditional access system, and means in said conditional access component for selectively enabling the particular identified preloaded conditional access system subject to a successful verification of the corresponding license (Giachetti, Abstract, pg.837 left column 2nd paragraph – right column 4th paragraph, fig.4, pg.838 left column 1st-6th paragraph, pg.840 right column 2nd-5th paragraph. Giachetti discloses that the smart card/detachable security device contains secret keys and stores the entitlement of the customer.)..

Although Giachetti discloses the above features, Giachetti fails to disclose the license authorization in more detail, such as means for receiving an EMM containing a license for the particular identified preloaded conditional access system. Schooneveld discloses the standardization of conditional access systems for digital pay television, wherein high level of commonality further studied (Schooneveld, Abstract). Schooneveld further discloses the use of common platform in decoder boxes (aka set-top boxes), and the use of smart cards, wherein he card will only issue the secret key when authorized via various known methods, such as transmission of EMMs, ECMs, etc. (Schooneveld, pg.218-219. Authorization, licensing is

Art Unit: 2455

disclosed.). It would have been obvious to one of ordinary skill in the art to modify the teachings of Giachetti with those of Schooneveld to utilize licensing authorization methods such as transmission of EMMs, ECMs, etc. One would have been motivated to do so, since as disclosed by Schooneveld, this was a popular/standardized method utilized in digital video broadcasting systems at the time the invention was made.

Giachetti further discloses that it is more cost-effective for both the end-user/customer and the manufacturer to implement the CASS (CA system) on detachable modules, such as smart cards, wherein the detachable module includes cryptographic algorithms, secret keys, and entitlement of the customer, rather than implementing the system so that multiple CASS is available on the decoder box with detachable modules including cryptographic algorithms, secret keys, and entitlement of the customer (Giachetti, Abstract, fig.2, fig.3 fig.4 pg.837 left column 2nd paragraph –pg.838 left column 5th paragraph, Conclusion). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Giachetti to implement multiple CA systems on the decoder box. One would have been motivated to do so since it is disclosed by that the system disclosed by Giachetti is an improvement of such system, and such system is disclosed by Giachetti as being prior art.

Regarding claim 10, Giachetti and Schooneveld disclosed the limitations as described in claim 8, and further discloses, a conditional access component wherein the valuable contents are distributed in a digital transport stream that contains Entitlement Management Messages "EMMs" specific to each conditional access system (Schooneveld, pg.218-219)

Art Unit: 2455

6. Claims 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Giachetti et al. (“A Common Conditional Access Interface for Digital Video Broadcasting Decoders”, *IEEE Transactions on Consumer Electronics*, August 1995), hereinafter referred to as Giachetti, in view of Schooneveld (“Standardization of Conditional Access Systems for Digital Pay Television”, *Philips Journal of Research*, 1996), in further view of Kamperman et al., hereinafter Kamperman (“Conditional access system interoperability through soft downloading”, *Consumer Electronics, IEEE*, Feb 2001).

Regarding claim 3, Giachetti and Schooneveld teaches the limitations, as described in claim 2, and further discloses the method of claim 2, however, fails to disclose a filter unit for filtering out EMMs.

Kamperman discloses a method wherein each conditional access component includes a filter unit for filtering out the specific EMMs of conditional access systems (Kamperman, p.47 Right Column: 2nd paragraph, p.49 Left Column: 3rd paragraph, Fig.2 (“ECM, EMM Section Filter” component)). According to Kamperman, EMMs are filtered out of the data stream.) enabled on the component and a verifier unit for the verification of access rights defined by the filtered specific EMMs (Kamperman et al. p.48 Right Column: 2nd paragraph. Kamperman discloses that the filtered out EMMs are used for authorizing the use of a key for every separate conditional access system, for determining the access rights of the user.).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Giachetti and Schooneveld to include a filter unit as taught by Kamperman. One would be motivated to do so to filter out the EMMs accordingly from the data stream and conduct verification for determining the access rights of the user.

Conclusion

7. In the case of amending the claimed invention, Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention.

The prior art made of record and not relied up on is considered pertinent to applicant's disclosure.

- Refer to PTO-892

A Shortened statutory period for reply is set to expire 3 month(s) or thirty (30) days, whichever is longer, from the mailing date of this communication.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward J. Kim whose telephone number is (571) 270-3228. The examiner can normally be reached on Monday - Friday 7:30am - 5:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar can be reached on (571) 272-4006. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2455

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Edward J Kim/
Examiner, Art Unit 2455

/saleh najjar/
Supervisory Patent Examiner, Art Unit 2455